	Application No.	Applicant(s)	
Notice of Allowability	10/827,067	KIMURA, NAOTO	(M)
	Examiner	Art Unit	(-
	Luan Thai	2891	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject to 3 and MPEP 1308.	plication. If not included nwill be mailed in due co	urse. THIS
1. This communication is responsive to the amendment filed			
2. The allowed claim(s) is/are 9-23 (renumbered as 1, 5-11,	2, 12-14, 3-4 and 15, respectively).		•
3. \boxtimes The drawings filed on <u>19 April 2004</u> are accepted by the E	xaminer.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			「ICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in 17. ☐ DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	son's Patent Drawing Review (PTO- 's Amendment / Comment or in the C 1.84(c)) should be written on the drawing the header according to 37 CFR 1.121(Dosit of BIOLOGICAL MATERIAL r	Office action of ngs in the front (not the bad). nust be submitted. Not	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application (PTO-1	152)
2 Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),	,
3. Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail Da 08), 7. ☐ Examiner's Amendr	te ment/Comment	
Paper No./Mail Date	<u>_</u>		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	ent of Reasons for Allowa	ance
Charles .	8/20/05		
WARY EXAMINER			

DETAILED ACTION

This Office action is responsive to the amendment filed on June 22, 2005.

- 1. Claims 9-23 are allowed and renumbered as 1, 5-11, 2, 12-14, 3-4 and 15, respectively.
- 2. The following is an examiner's statement of reasons for allowance: the prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of independent claims 9, 10, 16, 18, and 23, especially when these limitations are considered within the specific combination claimed.

In particular, the cited arts do not disclose the first intermediate substrate having a plurality of first bonding pads and the second intermediate substrate having a plurality of second bonding pads, each of the first bonding pads of the first intermediate substrate being electrically connected to an associated one of the first pads of the first semiconductor chips, and each of the second bonding pads being electrically connected to an associated one of the first pads of the first semiconductor chip, as recited in claims 9-10, 18 and 23, and the first and second intermediate substrates including at least one of a capacitor and a resistor, as recited in claim 16, and these features could not easily be conceived of even by a person skilled in the art in the light of the features disclosed in the cited prior arts (e.g., Ball) wherein the first and second intermediate substrates (14A-14B) are dice mounted on the board by flip-chip bonding and they do not have any bonding pad connected to the pads of the semiconductor chip mounted thereon.

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3. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Luan Thai whose telephone number is 571-272-1935. The

examiner can normally be reached on 6:30 AM - 5:00 PM, Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bradley W. Baumeister can be reached on 571-272-1722. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Luan Thai

Primary Examiner Art Unit 2891

August 22, 2005